ABSTRACT

The invention is directed to a multi-band switch having a transmitter switching section with a plurality of transmission ports, and a receiver switching section with a plurality of receiver ports, each having associated switching topologies to switch one of the ports to an antenna port. The switching topologies may use a plurality of series-connected FETs, such as insulated gate n-channel FETs, where the transmitter port switching elements may have larger switching transistors than the receiver port switching elements. The main signal path transistors of the transmitter and receiver switching elements be interdigitated FETs, in which source region fingers and drain region fingers alternate within the transistor area. These interdigitated source and drain regions may be spaced apart from each other by a sinuous channel region, over which is a gate metallization.